IN THE CLAIMS

Upon entry of the present amendment, the status of the claims will be as is shown below. This listing of claims replaces all previous versions and listings of claims in the present application.

Claim 1 – 22 (Cancelled).

23. (New) A communications services network platform implemented on at least one processor and comprising an operations, administration, maintenance and provisioning (OAMP) system for facilitating communications processing by entities within the platform, the (OAMP) system comprising:

a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information, at least one of the managed objects comprising a state information server, the state information server outputting output state information that is received as input state information by at least one of the managed objects comprising a state information client;

a state distributor system that identifies state information clients registered to receive a notification regarding changes to output state information and that notifies the identified state information clients of the changes to output state information;

a registry that registers at least one specified managed object with the state distributor system so that the at least one specified managed object receives, as input state information, specified output state information, the at least one specified managed object becoming a state information client upon receipt of the specified output state information; and

a response system that determines whether output state information has changed for each of the managed objects and that sends a transition message to the state distributor system indicating the change,

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within a communications processing system.

24. (New) The communications services network platform according to claim 23, wherein state information servers do not utilize information concerning state information clients registered to receive the notification regarding changes to output state information, and wherein the hierarchy of managed objects is modifiable.

25. (New) The communications services network platform according to claim 24, wherein the state distributor system registers bound variables comprising supported types that receive input state information.

26. (New) The communications services network platform according to claim 25, wherein the supported types comprise basic types, instances of classes and lists of at least one of objects and the basic types.

27. (New) The communications services network platform according to claim 23, wherein output state information comprises a bound variable, the bound variable

comprising one of a basic type, an instance of a class and a list comprising at least one of an object and the basic type, and

wherein input state information comprises a bound variable, the bound variable comprising one of a basic type, an instance of a class and a list comprising at least one of an object and the basic type.

28. (New) The communications services network platform according to claim 23,

wherein functions performed by each of the managed objects are registered with the state distributor system.

29. (New) A communications services network platform implemented on at least one processor and comprising an operations, administration, maintenance and provisioning (OAMP) system for facilitating communications processing by entities within the platform, the (OAMP) system comprising:

a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information, the output state information output by a first managed object being received as input state information by a second managed object;

a development system that defines each of the managed objects using a first high level programming language by specifying for each of the managed objects, the input state information, the output state information and the defined logical relation;

a first compiler that compiles each of the managed objects specified in the first high level programming language into code represented in a second high level programming language; and

a second compiler that compiles the code represented in the second high level programming language into lower level code for executing operations performed by each of the managed objects,

wherein each of the managed objects perform operations for providing a service based on identifying an originator of a communication in the communications processing system, and

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within a communications processing system.

30. (New) The communications services network platform according to claim 29, wherein the lower level code comprises executable machine code.

31. (New) A communications services network platform implemented on at least one processor and comprising an operations, administration, maintenance and provisioning (OAMP) system for facilitating communications processing by entities within the platform, the (OAMP) system comprising:

a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information;

a template defining system that defines templates for each of a plurality of managed objects comprising a list of functions that each of the plurality of managed objects is operable to perform, and comprising a defined logical relation among the input state information and the

output state information, each of the templates representing a structure for creating at least one transient object; and

a parent managed object that instantiates the at least one transient object at run time, the at least one transient object receiving input comprising types of resources and an amount of each of the types of resources used by the platform,

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within a communications processing system.

32. (New) The communications services network platform according to claim 31, wherein the at least one transient object is dynamically created based on a hardware environment of the platform.

33. (New) The communications services network platform according to claim 31, wherein functions performed by each of the managed objects are registered with a state distributor system.

34. (New) A method for use in a communications services network platform for facilitating communications processing by entities within the platform, the method comprising:

providing a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information, at least one of the managed objects comprising a state information server, the

state information server outputting output state information that is received as input state information by at least one of the managed objects comprising a state information client;

identifying state information clients registered to receive a notification regarding changes to output state information;

notifying the identified state information clients of the changes to output state information;

registering at least one specified managed object with a state distributor system so that the at least one specified managed object receives, as input state information, specified output state information, the at least one specified managed object becoming a state information client upon receipt of the specified output state information; and

determining whether output state information has changed for each of the managed objects and sending a transition message to the state distributor system indicating the change,

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within a communications processing system.

35. (New) The method according to claim 34,

wherein state information servers do not utilize information concerning state information clients registered to receive the notification regarding changes to output state information, and

wherein the hierarchy of managed objects is modifiable.

36. (New) The method according to claim 34,

wherein the state distributor system registers bound variables comprising supported types that receive input state information.

37. (New) The method according to claim 34,

wherein the supported types comprise basic types, instances of classes and lists of at least one of objects and the basic types.

38. (New) The method according to claim 34,

wherein functions performed by each of the managed objects are registered with the state distributor system.

39. (New) A method for use within a communications services network platform for facilitating communications processing by entities within the platform, the method comprising:

providing a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information, the output state information output by a first managed object being received as input state information by a second managed object;

defining each of the managed objects using a first high level programming language by specifying for each of the managed objects, the input state information, the output state information and the defined logical relation;

compiling each of the managed objects specified in the first high level programming language into code represented in a second high level programming language; and

compiling the code represented in the second high level programming language into lower level code for executing operations performed by each of the managed objects,

wherein each of the managed objects perform operations for providing a service based on identifying an originator of an incoming communication in a communications processing system, and

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within the communications processing system.

40. (New) The method according to claim 39,

wherein the lower level code comprises executable machine code.

41. (New) A method for use within a communications services network platform for facilitating communications processing by entities within the platform, the method comprising:

providing a hierarchy of managed objects, each of the managed objects receiving input state information and defining a logical relation among the input state information and output state information;

defining templates for each of a plurality of managed objects comprising a list of functions that each of the plurality of managed objects is operable to perform, and comprising a defined logical relation among the input state information and the output state information, each of the templates representing a structure for creating at least one transient object; and

instantiating the at least one transient object at run time the at least one transient object receiving input comprising types of resources and an amount of each of the types of resources used by the platform,

wherein the entities comprise at least one communications processing resource and at least one object representing communications processing operations and resource usage within a communications processing system.

42. (New) The method according to claim 41,

wherein instantiating further comprises dynamically creating the at least one transient object based on a hardware environment of the platform.

43. (New) The method according to claim 41, further comprising:

registering functions performed by each of the managed objects with a state distributor system.